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ABSTRACT

A wireless method and apparatus for transmitting signal, for example, from a source, to headphones or speakers, while allowing relatively unrestricted range of movement/placement for the headphones or speakers. An infrared transmitter diverges its signal by passing the signal through a concave lens.

The signal is processed to bounce off of objects, such as, walls, ceilings and floors before reaching the receiver on the headphones/speakers. The receiver has a convex lens affixed to it, so as to converge the transmitted signal. The signal is polarized so that ambient light is filtered.